

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** Please amend the claims as follows:

**We claim:**

**Claim 1. (Withdrawn)** A DNA molecule corresponding to a nucleotide sequence of a cereal pollen major allergen selected from one of the sequences in accordance with SEQ ID NO 1, 3, 5, 7, and 9.

**Claim 2. (Withdrawn)** A DNA molecule which hybridises with a DNA molecule according to claim 1 under stringent conditions and originates from DNA sequences from *Poaceae* species.

**Claim 3. (Withdrawn)** A DNA molecule, encoding a polypeptide, which cross-reacts immunologically with the major allergens Sec c 4, Hor v 4 or Tri a 4 from *Secale cereale*, *Hordeum vulgare* or *Triticum aestivum* and originates from DNA sequences from *Poaceae* species.

**Claim 4. (Withdrawn)** A DNA molecule, corresponding to a partial sequence or a combination of partial sequences according to claim 1, which encodes an immunomodulatory, T-cell-reactive fragment of a group 4 allergen from the *Poaceae*.

**Claim 5. (Withdrawn)** A DNA molecule, corresponding to a nucleotide sequence according to claim 1, encoding an immunomodulatory T-cell-reactive fragment, characterised in that said nucleotide sequence has been specifically modified by specific mutation of individual codons, elimination or addition.

**Claim 6. (Withdrawn)** A DNA molecule according to claim 5, characterised in that the said mutation results in the replacement of one, a plurality of or all cysteines of the corresponding polypeptide with another amino acid.

**Claim 7. (Withdrawn)** A recombinant DNA expression vector or a cloning system comprising a DNA molecule according to claim 1, functionally linked to an expression control sequence.

**Claim 8. (Withdrawn)** A host organism transformed with a DNA molecule according to claim.

**Claim 9. (Withdrawn, Currently Amended)** A process for the preparation of a polypeptide encoded by a DNA sequence of a DNA molecule according to claim 1 by cultivation of claim 10, comprising

culturing a host organism transformed with the DNA molecule having the sequence set forth in SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 5, SEQ ID NO: 7, or SEQ ID NO: 9; and isolation of isolating the corresponding polypeptide from the culture.

**Claim 10. (Currently Amended)** A polypeptide which is corresponding to one of the amino acid sequences in accordance with SEQ ID NO 2, 4, 6, 8 and 10, which is

- (a) a polypeptide which comprises the sequence set forth in SEQ ID NO: 2, SEQ ID NO: 4, SEQ ID NO: 6, SEQ ID NO: 8, or SEQ ID NO: 10; or
- (b) a polypeptide which is encoded by a DNA sequence set forth in SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 5, SEQ ID NO: 7, or SEQ ID NO: 9 according to claim 1.

**Claim 11. (Currently Amended)** A polypeptide corresponding to the mature allergen of the amino acid sequences according to claim 10, A mature polypeptide sequence of cereal pollen major allergen, which is selected from the following group of amino acid sequences

- [[-]] (a) one of the amino acid sequences in accordance with a polypeptide which comprises a sequence which begins with amino acid residue 23 and ends at the C-terminal amino acid residue of SEQ ID NO: 2, SEQ ID NO: 4 or SEQ ID NO: 6; or SEQ ID NO 2, 4, or 6, beginning with amino acid 23,
- [[-]] (b) a polypeptide which comprises a sequence which begins with amino acid residue 22 and ends at the C-terminal amino acid residue of SEQ ID NO: 8 or SEQ ID NO: 10 one of the amino acid sequences in accordance with SEQ ID NO 8 or 10, beginning with amino acid 22.

**Claim 12. (Currently Amended)** A medicament comprising at least one polypeptide according to Claim 10 and a carrier as medicament.

**Claim 13. (Currently Amended)** A pharmaceutical composition comprising at least one polypeptide according to claim 10 and an active ingredient or an adjuvant Claim 12 and optionally further active ingredients and/or adjuvants for the diagnosis and/or treatment of allergies in the triggering of which group 4 allergens from the *Poaceae* are involved.

**Claim 14. (Withdrawn, Currently Amended)** Use of at least one polypeptide according to Claim 12 for the preparation of a medicament A method for the prevention, diagnosis and/or treatment of allergies in the triggering of which group 4 allergens from the an allergy triggered by group 4 allergens from Poaceae, comprising administering to a subject in need thereof at least one polypeptide according to claim 10 are involved and/or for the prevention of such allergies.

**Claim 15. (Withdrawn)** A DNA molecule according to claim 1 as medicament.

**Claim 16. (Withdrawn)** A recombinant expression vector according to Claim 7 as medicament.

**Claim 17. (Withdrawn)** A pharmaceutical composition comprising at least one DNA molecule according to Claim 15 and optionally further active ingredients and/or adjuvants for the immunotherapeutic DNA vaccination of patients with allergies in the triggering of which group 4 allergens from the *Poaceae* are involved and/or for the prevention of such allergies.

**Claim 18. (Cancelled)**

**Claim 19. (Cancelled)**

**Claim 20. (Cancelled)**

**Claim 21. (New)** The polypeptide according to claim 11, which is a recombinant polypeptide.

**Claim 22. (New)** The polypeptide according to claim 11, which is an isolated polypeptide.

**Claim 23. (New)** A variant polypeptide, wherein at least one cysteine residue of a polypeptide sequence of SEQ ID NO: 2, SEQ ID NO: 4, SEQ ID NO: 6, SEQ ID NO: 8 or SEQ ID NO: 10 has been replaced with another amino acid by site-specific mutagenesis.